

Notice of Allowability

Application No.

09/608,761

Examiner

Arlen Soderquist

Applicant(s)

BINDER ET AL.

Art Unit

1743

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the paper of July 20, 2004.
2. ☒ The allowed claim(s) is/are 1,2,6,7 and 24-26.
3. ☒ The drawings filed on 20 July 2004 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

Art Unit: 1743

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Vincent J. Sunderdick on September 28, 2004.

2. The application has been amended as follows: claims 10-11, 15-17, 19-20, and 22-23 have been cancelled. Claims 1 and 24 have been amended as follows.

1. (Currently Amended) Method for determining the storage state of an ammonia-adsorbing SCR catalyst having at least one channel for receiving gas flow, wherein the change in at least one physical property of the SCR catalyst changes on account of the NH_3 storing process, said method comprising:

applying a measuring pickup to at least one interior surface of said at least one channel of said the SCR catalyst;

sensing an electrical impedance of the SCR catalyst from said measuring pickup wherein the sensing of the impedance takes place at one or more frequencies from the frequency range between 0 Hz and an upper cut-off frequency, at which the wavelength corresponding to the measuring frequency is significantly less than the dimensions of the measuring pickup; and

determining the storage state of the SCR catalyst on the basis of said electrical impedance.

24. (Currently Amended) Method for determining the storage state of an ammonia-adsorbing SCR catalyst having at least one channel for receiving gas flow, wherein the change in at least one physical property of the SCR catalyst changes on account of an NH_3 storing process, said method comprising:

applying a measuring pickup to at least one interior surface of said at least one channel the SCR catalyst;

sensing one of a thermal electromotive force of the SCR catalyst and the SCR catalysts' response to temperature changes, said sensing being provided by said measuring pickup; and

Art Unit: 1743

determining the storage state on the basis of said one of said thermal electromotive force and the catalysts' response to temperature changes.

3. The following is an examiner's statement of reasons for allowance: the art of record fails to teach or fairly suggest the methods as claimed in which a measuring pickup is applied to an interior surface of a channel in an ammonia absorbing SCR catalyst having at least one channel for receiving gas flow.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arlen Soderquist whose current telephone number is (571) 272-1265 as a result of the examiner moving to the new USPTO location. The examiner's schedule is variable between the hours of about 5:30 AM to about 5:00 PM on Monday through Thursday and alternate Fridays.

A general phone number for the organization to which this application is assigned is (571) 272-1700. The fax phone number to file official papers for this application or proceeding is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



September 28, 2004

ARLEN SODERQUIST
PRIMARY EXAMINER